

"Patented" 09/25/2000

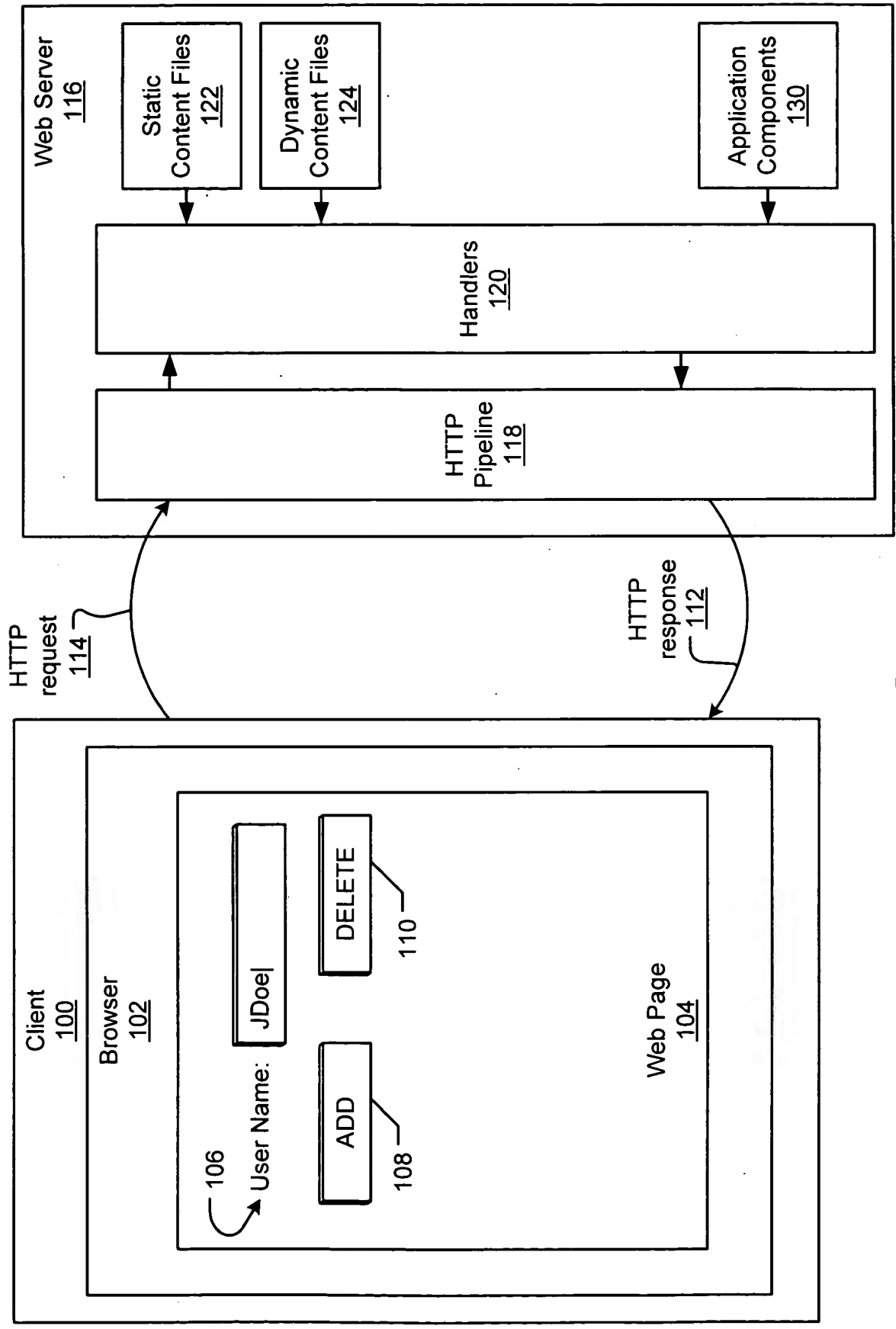
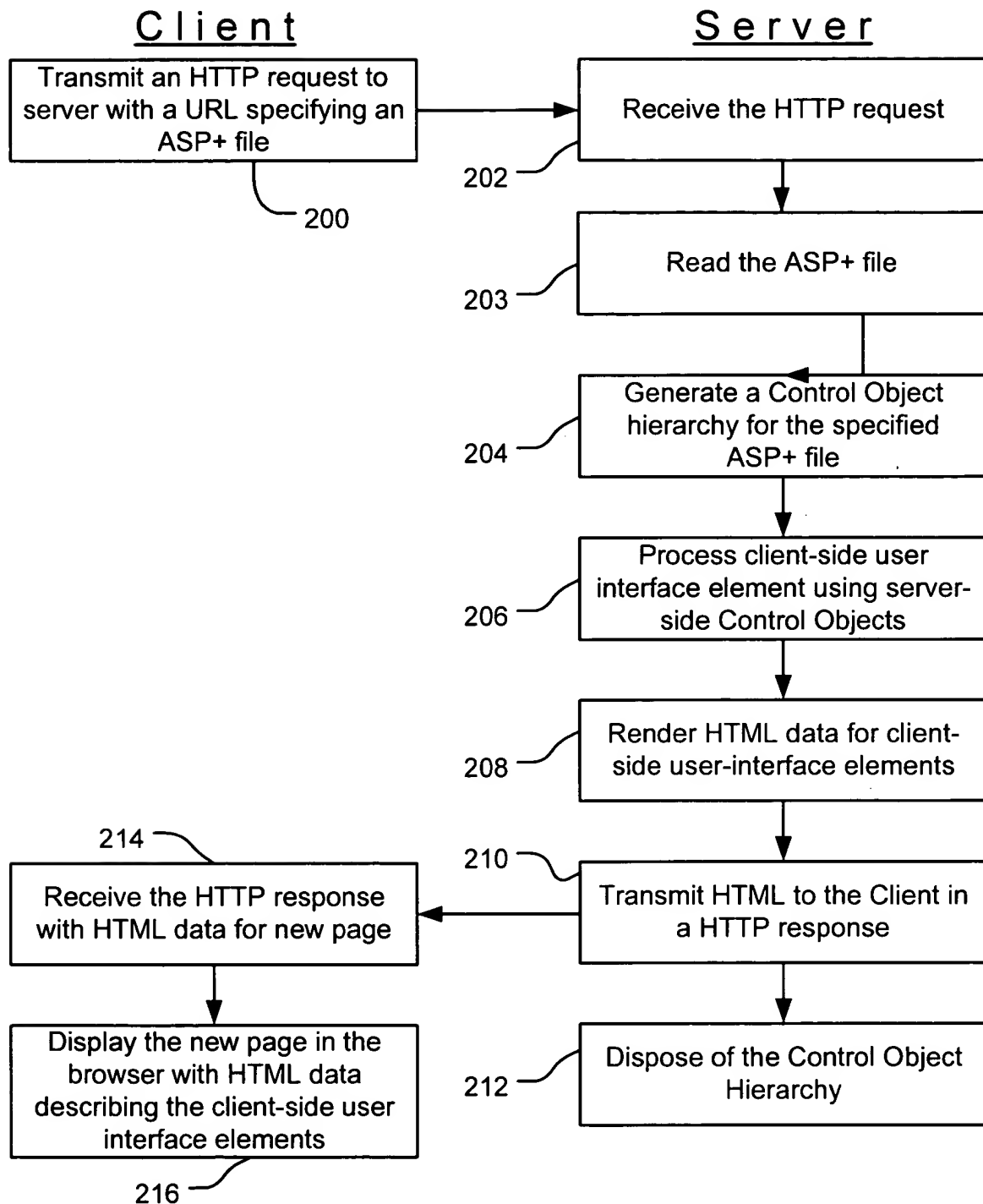
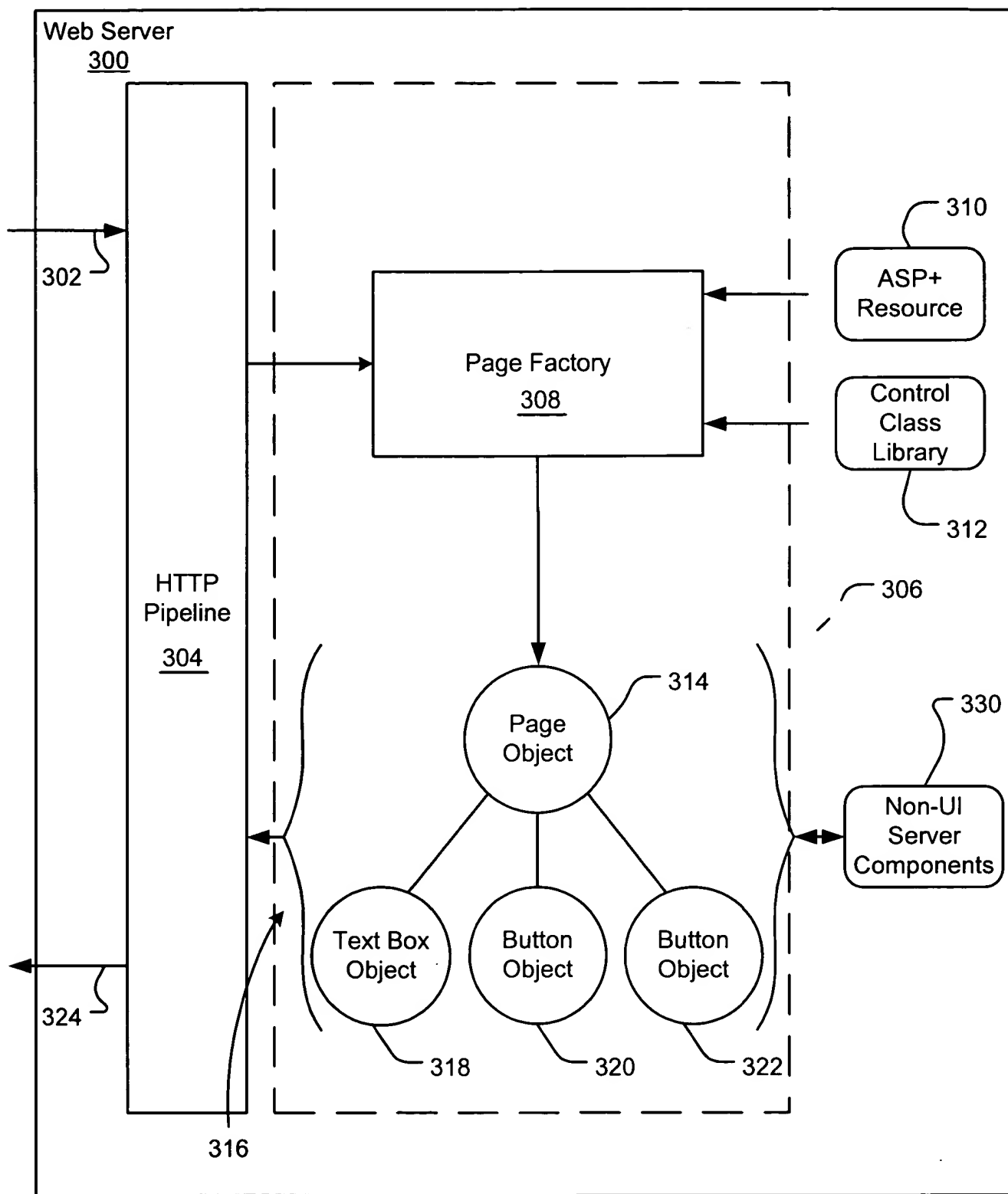


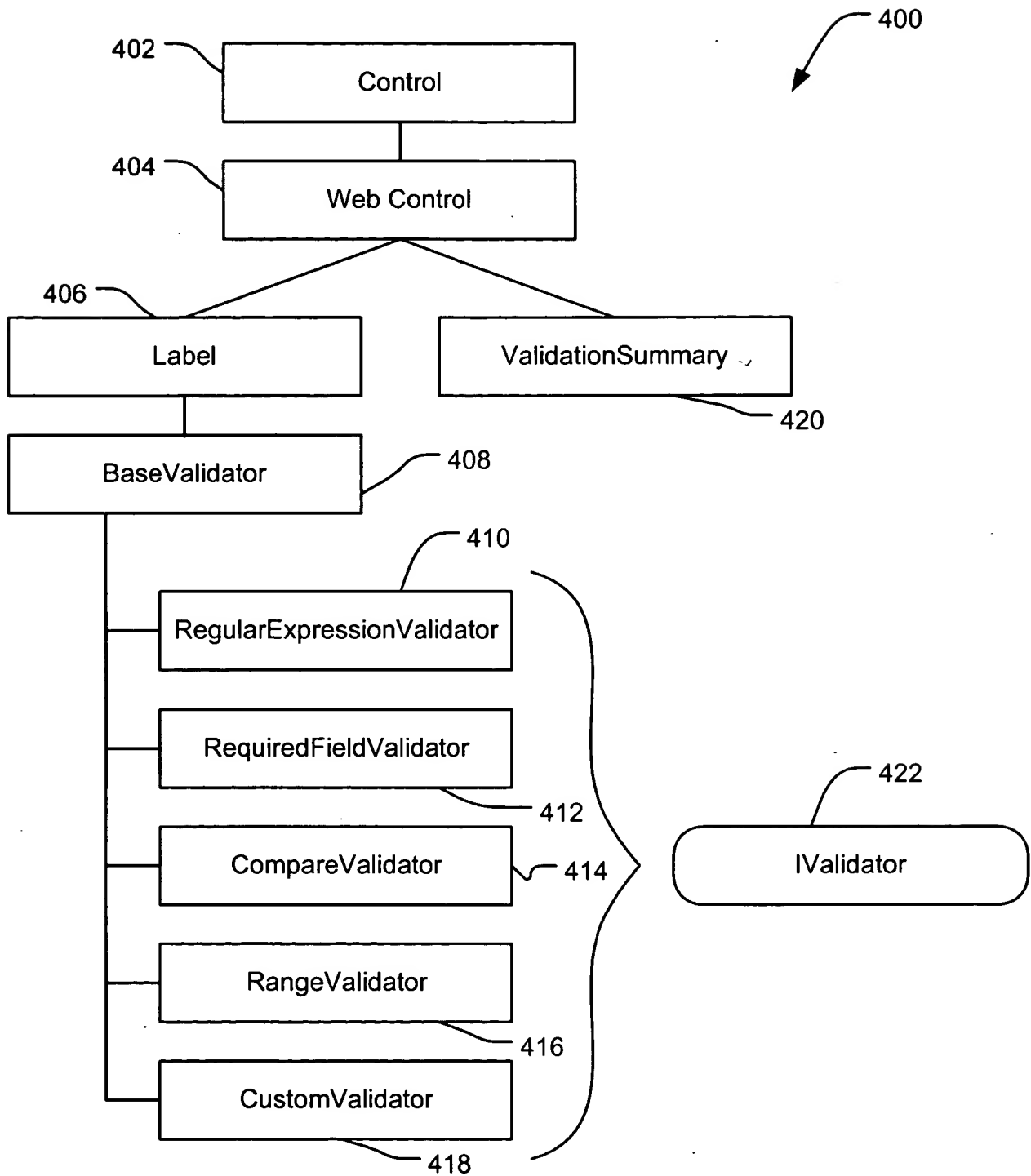
FIG. 1



**FIG. 2**



**FIG. 3**



**FIG. 4**

500 ↘

```
(1) namespace System.Web.UI
(2) {
(3)     public interface IValidator
(4)     {
(5)         // Properties
(6)         public Boolean    IsValid    {get;set;}
(7)         public String    ErrorMessage {get;set;}
(8)
(9)         // Methods
(10)        public void      Validate();
(11)    }
(12) }
```


**FIG. 5**

600 ↙

```
(1) namespace System.Web.UI
(2) {
(3)     [AttributeUsage(AttributeTargets.Class)]
(4)     public class ValidationProperty : Attribute
(5)     {
(6)         // Properties
(7)         public String      ValidationProperty {get;}
(8)
(9)         // Constructor
(10)        public      ValidationProperty(String propertyName);
(11)    }
(12) }
```

**FIG. 6**

700



```
(1) namespace System.Web.UI
(2) {
(3)     public class Page : TemplateControl
(4)     {
(5)         // Properties
(6)         public Boolean IsValid {get;}
(7)         public ValidatorCollection Validators {get;}
(8)     }
(9) }
```

**FIG. 7**

800 ↘

```
(1) namespace System.Web.UI
(2) {
(3)     public class BaseValidator : Label, IValidator
(4)     {
(5)         // Properties
(6)         public String      ControlToValidate {get; set;}
(7)         public Boolean      IsValid           {get; set;}
(8)         public String      ErrorMessage     {get; set;}
(9)         public ValidatorDisplay Display       {get; set;}
(10)        public String      Text             {get; set;}
(11)        public Boolean      EnableClientScript {get; set;}
(12)
(13)        // Methods
(14)        public void         Validate();
(15)    }
(16)
(17)    public enum ValidatorDisplay
(18)    {
(19)        None = 0;    // Validator is always invisible; used when the error
(20)                     // message is only shown in a ValidationSummary
(21)        Static = 1;  // Validator takes up space even when hidden
(22)        Dynamic = 2; // Validator takes up space only when visible
(23)    }
(24) }
```

**FIG. 8**




[illegible]

**FIG. 9**

FIG. 10

1000



```
(1) namespace System.Web.UI
(2) {
(3)     public class RequiredFieldValidator : BaseValidator
(4)     {
(5)         // Properties
(6)         public String      InitialValue {get;set;}
(7)     }
(9) }
```

**FIG. 10**

1100 ↘

```
(1) namespace System.Web.UI
(2) {
(3)     public class CompareValidator : BaseValidator
(4)     {
(5)         // Properties
(6)         public ValidationDataType      Type      {get; set;}
(7)         public ValidationCompareOperator Operator {get; set;}
(8)         public String                  ControlToCompare {get; set;}
(9)         public String                  ValueToCompare {get; set;}
(10)
(11)     }
(12)     public enum ValidationComparisonOperator
(13)     {
(14)         Equal = 0,
(15)         NotEqual = 1,
(16)         GreaterThan = 2,
(17)         GreaterThanEqual = 3,
(18)         LessThan = 4,
(19)         LesserThanEqual = 5,
(20)         DataTyhpeCheck = 6,
(21)     }
(22)     public enum ValidationDataType
(23)     {
(24)         String = 0,
(25)         Integer = 1,
(26)         Double = 2,
(27)         Date = 3,
(28)         Currency = 4,
(29)     }
(30) }
```

**FIG. 11**

1200 ↘

(1) namespace System.Web.UI  
(2) {  
(3) public class RangeValidator : BaseValidator  
(4) {  
(5) // Properties  
(6) public ValidationDataType Type {get;set;}  
(7) public String MinimumControl {get;set;}  
(8) public String MinimumValue {get;set;}  
(9) public String MaximumControl {get;set;}  
(10) public String MaximumValue {get;set;}  
(11) }  
(12) }

**FIG. 12**

1300 ↘

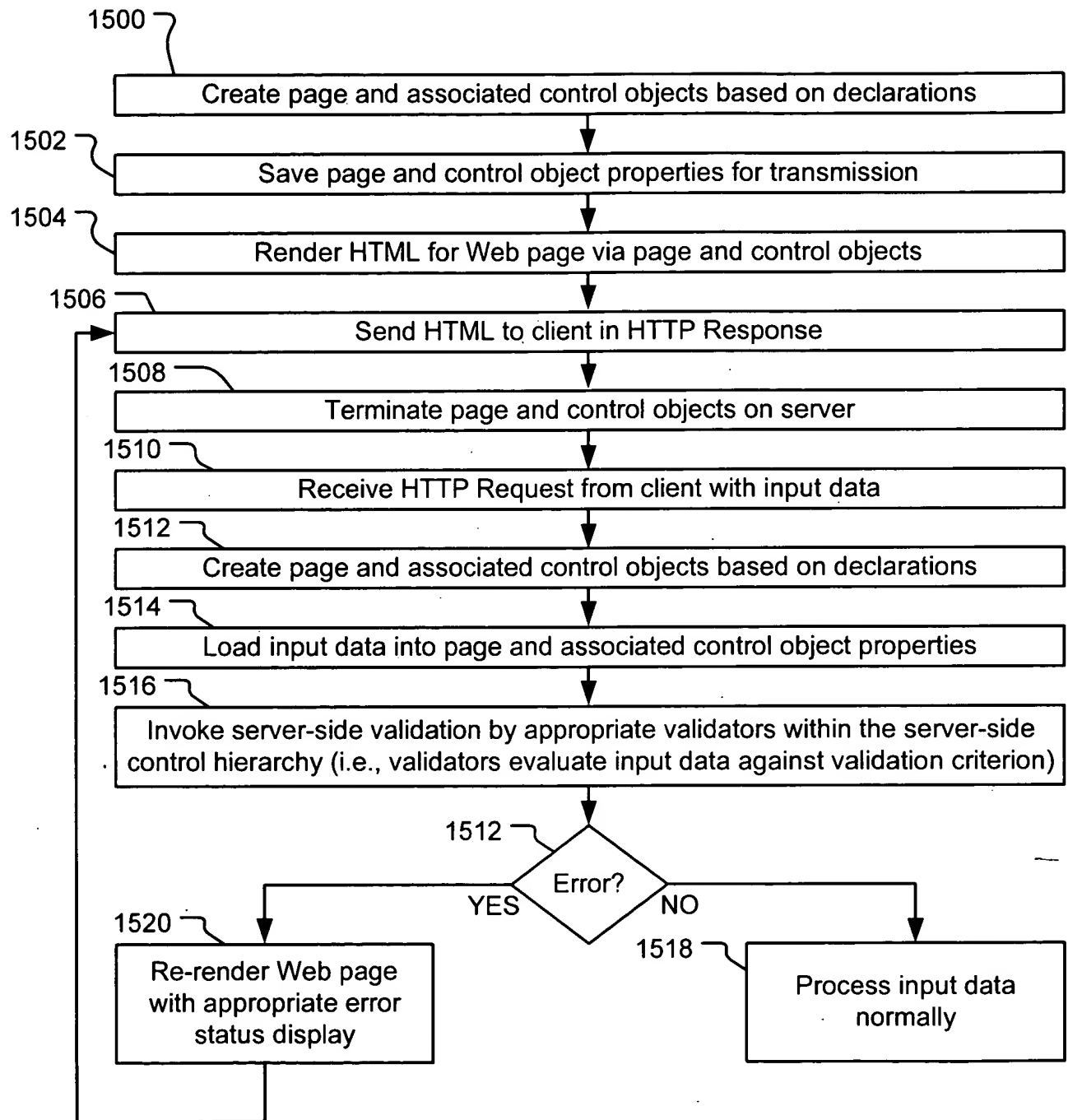
```
(1) namespace System.Web.UI
(2) {
(3)     public class CustomValidator : BaseValidator
(4)     {
(5)         // Properties
(6)         public String      ClientValidationFunction {get;set;}
(7)         public Event void   OnServerValidationFunction(Object Source,
(8)                                     ServerValidateEventArgs Value)      {get; set;}
(9)     }
(10)    public class ServerValidateEventArgs: EventArgs
(11)    {
(12)        public ServerValidateEventArgs(string value, Boolean isValid);
(13)        public String Value {get;}
(14)        public Boolean IsValid {get;set;}
(15)    }
(16) }
```

**FIG. 13**

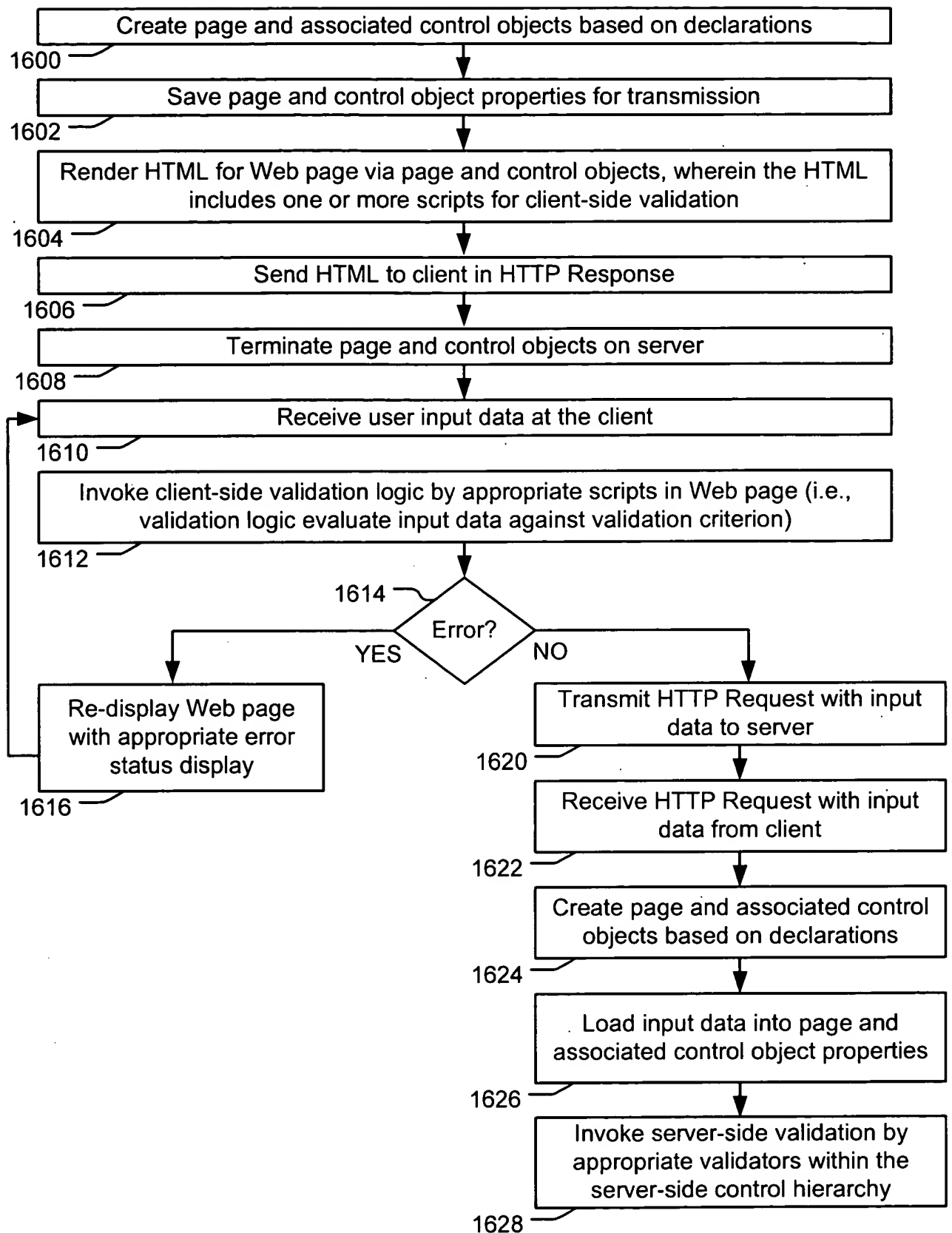
1400 ↙

```
(1) namespace System.Web.UI
(2) {
(3)     public class ValidationSummary : WebControl
(4)     {
(5)         // Properties
(6)         public String HeaderText {get; set;}
(7)         public ValidationSummaryDisplayMode DisplayMode {get; set;}
(8)         public Boolean ShowSummary {get; set;}
(9)         public Boolean ShowMessageBox {get; set;}
(10)    }
(11)    public enum ValidationSummaryDisplayMode
(12)    {
(13)        List = 0;
(14)        BulletList = 1;
(15)        SingleParagraph = 2;
(16)    }
(17) }
```

**FIG. 14**



**FIG. 15**



**FIG. 16**



**FIG. 17**

